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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/080,963	02/22/2002	John Murdock	END920010083	1606	
30400 7	7590 02/01/2005		EXAMINER		
HESLIN ROTHENBERG FARLEY & MESITI P.C. 5 COLUMBIA CIRCLE ALBANY, NY 12203			PHILIPPE	PHILIPPE, GIMS S	
			ART UNIT	PAPER NUMBER	
			2613		

DATE MAILED: 02/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)			
Office Action Summary		10/080,963	MURDOCK ET AL.			
		Examiner	Art Unit			
		Gims S Philippe	2613			
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reper period for reply is specified above, the maximum statutory period in the reply within the set or extended period for reply will, by statutively received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be to the statutory minimum of thirty (30) dawill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	imely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C.§ 133).			
Status						
1)	Responsive to communication(s) filed on					
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.					
3)						
Disposit	ion of Claims					
5)[Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.				
Applicat	ion Papers					
9)⊠	The specification is objected to by the Examin	er.				
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. So	ee 37 CFR 1.85(a).			
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E					
Priority (under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea	ts have been received. ts have been received in Applica prity documents have been receiv nu (PCT Rule 17.2(a)).	ntion No ved in this National Stage			
•			C			
Attachmen	t(s) e of References Cited (PTO-892)	4) 🔲 Interview Summar	ny (PTO-413)			
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail [Date			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date <u>01272005</u> .	5) Notice of Informal 6) Other:	Patent Application (PTO-152)			

DETAILED ACTION

This is a first action in response to application no. 10/080,963 filed on February 22, 2002 in which claims 1-20 are presented for examination.

Cross reference to related applications

The applicant refers to 2 related applications, however, the serial numbers have not been included. The applicant is urged to indicate the serial numbers of the applications mentioned on page 1 of the present patent application.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4, 6-11, 13-18 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Murakami et al (US Patent no. 5,724,098).

Regarding claims 1, 8 and 15, Murakami discloses the same program, system and method of filtering pixels of a video frame of a sequence of video frames (See Murakami's Abstract) comprising determining a pixel value difference between a pixel a

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current frame and a corresponding pixel of temporally previous frame (See Murakami fig. 9 and fig. 17, item 33, and col. 4, lines 1-6 and lines 51-58); and adaptively filtering said pixel of said current frame using a filter coefficient (See col. 12, lines 10-19), said adaptively filtering comprising employing said pixel value difference to select said filter coefficient for use filtering said pixel (See col. 12, lines 33-49).

As per claims 2-3, 9-10 and 16-17, most of the limitations of these claims have been noted in the above rejection of claims 1, 8 and 15. In addition, Murakami further employs a threshold with coefficients by performing adaptive filtering (See Murakami col. 11, lines 54-65, and col. 12, lines 10-19).

As per claims 4, 11 and 18, most of the limitations of these claims have been noted in the above rejection of claims 2, 9, and 16. In addition, Murakami further discloses providing more than one thresholds with more than one filter coefficients (See Col. 12, lines 50-67 col. 13, lines 1-10).

As per claims 6, 13, and 20, most of the limitations of these claims have been noted in the above rejection of claims 1, 8, and 15. In addition, the step of operating with only the field instead of frames in Murakami is considered as disclosing the repeat field (See Murakami col. 15, lines 36-50).

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As per claims 7 and 14, most of the limitations of these claims have been noted in the above rejection of claims 6 and 13. In addition, the difference calculator 30 of Mukarami's fig. 2, does comprise the calculation logic (Also see col. 9, lines 1-12).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5, 12, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murakami et al. (US Patent no. 5724098) in view of Mack et al. (US Patent no. 5434567).

As per claims 5, 12, and 19, most of the limitations of these claims have been noted in the above rejection of claims 1, 8, and 15.

It is noted that Murakami is silent about outputting pixel value that are determined by FPV = P1(f) + P2(1-f) as specified in the claims.

However, Mack discloses outputting pixel value that are determined by FPV = P1(f) + P2(1-f) (See Mack col. 14, line 5).

Therefore, it is considered obvious that one skilled in the art at the time of the invention would recognize the advantage of modifying Murakami by incorporating

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Mack's step of outputting pixel value that are determined by the expression. The motivation for such a modification is to help stimulate motion between successive images and smooth the transition associated with scene changes as taught by Mack (See Mack col. 14, lines 17-20).

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Wright et al. (US Patent no. 5788635) teaches adaptive persistence processing. Knee et al. (US Patent no. 5504531) teaches method and apparatus for up-conversion. Wright et al. (US Patent no. 5595179) teaches adaptive persistence processing. Korta et al. (US Patent no. 6356663) teaches processing image signal using spatial decomposition.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gims S Philippe whose telephone number is (703) 305-1107. The examiner can normally be reached on M-F (9:30-7:00) Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris S Kelley can be reached on (703) 305-4780. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gims S Philippe Primary Examiner Art Unit 2613

GSP

January 27, 2005